

Dealer's Manual

ROAD	GRAVEL	MTB
E-BIKE	LIFESTYLE	GENERAL

Cassette

- CS-HG400-9
- CS-HG400-8
- CS-HG400-7
- CS-HG300-8
- CS-HG210-7
- CS-HG50-8

CONTENTS

IMPORTANT NOTICE..... 3

TO ENSURE SAFETY..... 4

LIST OF TOOLS TO BE USED..... 6

INSTALLATION 8

 Installing the cassette 8

 Removing the cassette 9

 Sprocket pattern 10

IMPORTANT NOTICE

- **This dealer's manual is intended primarily for use by professional bicycle mechanics.**

Users who are not professionally trained for bicycle assembly should not attempt to install the components themselves using the dealer's manuals. If any part of the information on the manual is unclear to you, do not proceed with the installation. Instead, contact your place of purchase or a distributor for assistance.

- Make sure to read all manuals included with each product.
- Do not disassemble or modify the product other than as stated in the information contained in this dealer's manual.
- All manuals and technical documents are accessible online at <https://si.shimano.com>.
- For consumers who do not have easy access to the internet, please contact a SHIMANO distributor or any of the SHIMANO offices to obtain a hardcopy of the user's manual.
- Please observe the appropriate rules and regulations of the country, state or region in which you conduct your business as a dealer.

For safety, be sure to read this dealer's manual thoroughly before use, and follow it for correct use.

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings. The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.



DANGER

Failure to follow the instructions will result in death or serious injury.



WARNING

Failure to follow the instructions could result in death or serious injury.




CAUTION

Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

TO ENSURE SAFETY

WARNING

- **Be sure to follow the instructions provided in the manuals when installing the product.**
Only use SHIMANO genuine parts. If a component or replacement part is incorrectly assembled or adjusted, it can lead to component failure and cause the rider to lose control and crash.
-  Wear approved eye protection while performing maintenance tasks such as replacing components.

Be sure to also inform users of the following:

- Clean the chain and QUICK-LINK with an appropriate chain cleaner regularly. Intervals between maintenance depend on the use and riding circumstances. Never use alkali- or acid-based solvents such as rust cleaners. If those solvents are used the chain or QUICKLINK might break and cause serious injury.
- When removing the lock ring, wear gloves and eye protection, and gradually apply force. A sudden release of resistance on the lock ring may cause serious injury.

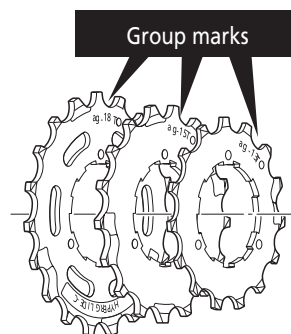
NOTICE

Be sure to also inform users of the following:

- If the chain keeps skipping during use, consult the place of purchase.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend SHIMANO lubricants and maintenance products.

For installation to the bicycle and maintenance:

- The sprockets should be periodically washed with a neutral detergent then lubricated. In addition, cleaning the chain and QUICK-LINK with a neutral detergent and lubricating them can be an effective way of extending the life of the chain and QUICK-LINK.
- Always use the recommended combination of sprockets.
- Always be sure to use sprockets with the same group marks, and never use sprockets with different group marks.
(Depending on the tooth combination, some may not have a mark.)








- Always use CS-HG400-9 in combination with CN-7701, CN-HG93, CN-HG73, or CN-HG53. Other chains cannot be used because the dimensions do not match.
- Always use CS-HG400-8 / CS-HG400-7 / CS-HG300-8 / CS-HG210-7 / CS-HG50-8 in combination with CN-HG40 or CN-HG71. Other chains cannot be used because the dimensions do not match.

The actual product may differ from the illustration because this manual is intended mainly to explain the procedures for using the product.

LIST OF TOOLS TO BE USED

LIST OF TOOLS TO BE USED

The following tools are needed for installation, adjustment, and maintenance purposes.

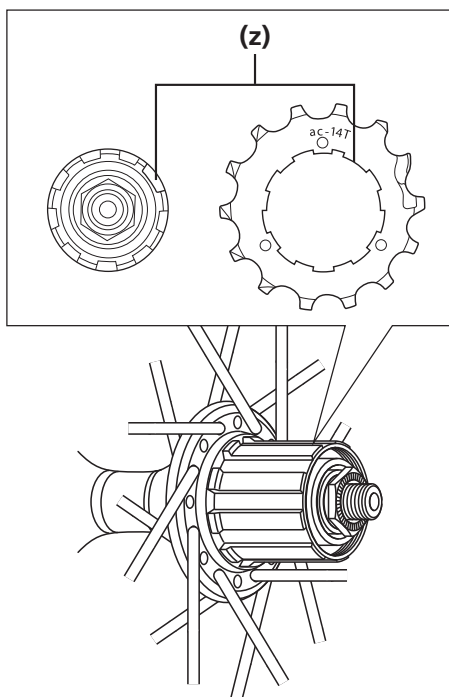
Tool		Tool	
 TL-LR10	TL-LR10	 TL-SR21	TL-SR21
 TL-LR15	TL-LR15	 TL-SR23	TL-SR23
	Adjustable wrench		

INSTALLATION

INSTALLATION

■ Installing the cassette

1



When setting the sprockets, set each one so that the surface that has the group mark faces outward and so that the wide groove area on the freewheel body is aligned with the wide groove area of the convex section on each sprocket.

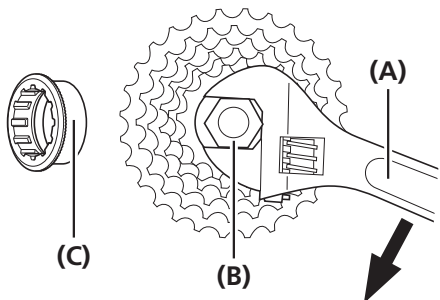
(z) Wide section



TECH TIPS

There is only one wide groove area on the freewheel body and on each sprocket. Check when setting the sprockets.

2



Set and tighten the lock ring.

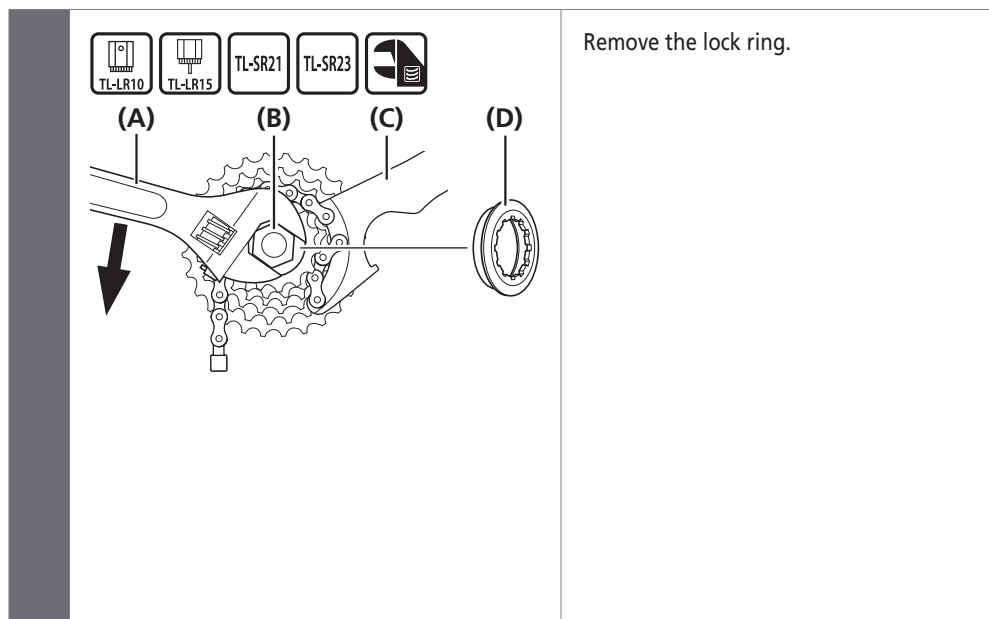
- (A)** Adjustable wrench
- (B)** TL-LR10 / TL-LR15
- (C)** Lock ring

Tightening torque



30 - 50 N·m

■ Removing the cassette



(A) Adjustable wrench

(B) TL-LR10 / TL-LR15

(C) TL-SR21 / TL-SR23

(D) Lock ring

⚠ WARNING

When removing the lock ring, wear gloves and eye protection, and gradually apply force. A sudden release of resistance on the lock ring may cause serious injury.

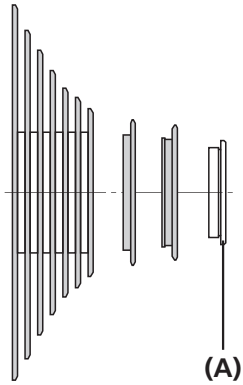
NOTICE

Set TL-SR21 / TL-SR23 on a sprocket smaller than the middle sprocket. If it is set on a sprocket larger than the middle sprocket, the tool will not be stable.

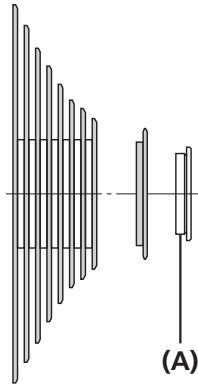
■ Sprocket pattern

CS-HG400-9

11-32T (ar), 11-34T (au), 11-36T (cb)

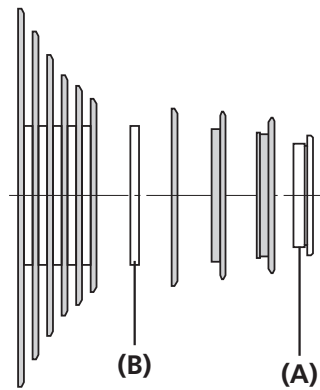


12-36T (bh) (MTB)

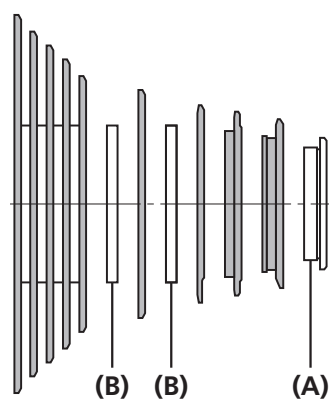


(A) Lock ring
(B) Sprocket spacers

11-28T (bg)

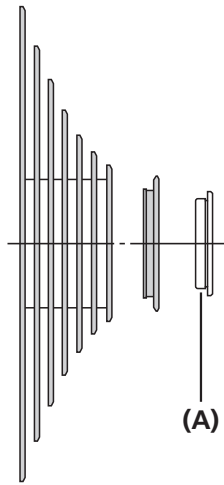


11-25T(G)



CS-HG400-8

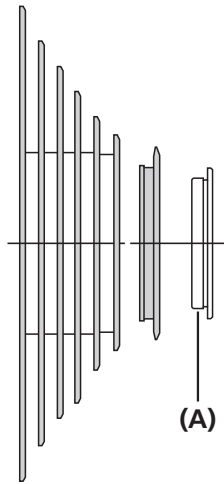
11-40T, 11-45T



(A) Lock ring

CS-HG400-7

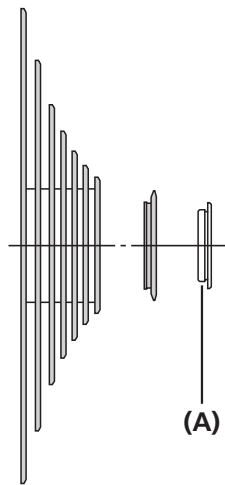
11-28T (ac)



(A) Lock ring

CS-HG300-8

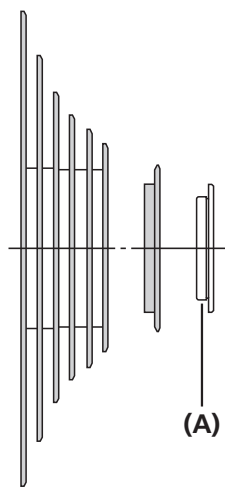
11-45T



(A) Lock ring

CS-HG210-7

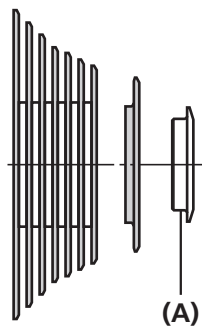
12-28T (bm), 12-32T (bp)



(A) Lock ring

CS-HG50-8

11-28T (bf), 11-30T (an), 11-32T (aw), 11-34T (ca)



(A) Lock ring



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Please note: specifications are subject to change for improvement without notice. (English)

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